

# ENTERED



PCT

## RAW SEQUENCE LISTING

DATE: 03/27/2003

PATENT APPLICATION: US/09/806,555A

TIME: 13:57:49

Input Set : A:\50125.022001.SEQLIST.TXT

Output Set: N:\CRF4\03272003\I806555A.raw

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4 <110> APPLICANT: Schrader, Jorgen
5      Herrmann, Andreas
7 <120> TITLE OF INVENTION: Tissue-Binding Peptides, Their
8      Identification, Preparation and Use
11 <130> FILE REFERENCE: 50125/022001
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/806,555A
14 <141> CURRENT FILING DATE: 2001-03-30
16 <150> PRIOR APPLICATION NUMBER: PCT/EP99/07296
17 <151> PRIOR FILING DATE: 2000-04-13
19 <150> PRIOR APPLICATION NUMBER: DE 19845434.1
20 <151> PRIOR FILING DATE: 1998-10-02
22 <160> NUMBER OF SEQ ID NOS: 17
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 10
28 <212> TYPE: PRT
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Tissue binding peptide
34 <400> SEQUENCE: 1
35 Gly Glu Gly Arg Thr Val Val Leu Ser Phe
36 1          5          10
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 12
41 <212> TYPE: PRT
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: Tissue binding peptide
47 <400> SEQUENCE: 2
48 Ala Trp Cys Arg Gly Gly Ile Leu Gly Asp Ala Met
49 1          5          10
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 12
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Tissue binding peptide
60 <400> SEQUENCE: 3
61 Gly Asn Leu Val Asp Leu Val Val Gly Phe Asp Asp
62 1          5          10
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 12
67 <212> TYPE: PRT

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/806,555A

DATE: 03/27/2003

TIME: 13:57:49

Input Set : A:\50125.022001.SEQLIST.TXT

Output Set: N:\CRF4\03272003\I806555A.raw

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68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Tissue binding peptide
73 <400> SEQUENCE: 4
74 Arg Val Ser Pro Pro Lys Lys Ser Gly Gly Val
75 1 5 10
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 12
80 <212> TYPE: PRT
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Tissue binding peptide
W--> 86 <221> NAME/KEY: VARIANT
87 <222> LOCATION: 9
88 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 90 <400> 5
W--> 91 Gly Ser Ser Lys Trp Gly Leu Thr Xaa Lys Cys Gly
92 1 5 10
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 12
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Tissue binding peptide
103 <400> SEQUENCE: 6
104 Arg Gly Gly Val Arg Gln Arg Ser Arg Gly Arg Arg
105 1 5 10
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 10
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Tissue binding peptide
116 <400> SEQUENCE: 7
117 Gly Glu Gly Arg Thr Val Val Cys Arg Ser
118 1 5 10
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 12
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Tissue binding peptide
129 <400> SEQUENCE: 8
130 Ser Gln Arg Trp Thr Ala Leu Trp Gln Trp Ile Gly
131 1 5 10
134 <210> SEQ ID NO: 9
135 <211> LENGTH: 23
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial Sequence

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## RAW SEQUENCE LISTING

DATE: 03/27/2003

PATENT APPLICATION: US/09/806,555A

TIME: 13:57:49

Input Set : A:\50125.022001.SEQLIST.TXT

Output Set: N:\CRF4\03272003\I806555A.raw

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139 <220> FEATURE:
140 <223> OTHER INFORMATION: Tissue binding peptide
142 <400> SEQUENCE: 9
143 Gly Leu Phe His Ala Ile Ala His Phe Ile His Gly Gly Trp His Gly
144 1 5 10 15
145 Leu Ile His Gly Trp Tyr Gly
146 20
149 <210> SEQ ID NO: 10
150 <211> LENGTH: 31
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
157 <400> SEQUENCE: 10
158 ggcgaggggc gaacagtcgt attgtcggtc g 31
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 36
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
168 <400> SEQUENCE: 11
169 gcctggtgtc ggggggggtat cctgggcgac gctatg 36
171 <210> SEQ ID NO: 12
172 <211> LENGTH: 36
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
179 <400> SEQUENCE: 12
180 ggaaacctgg tggatctagt tgtgggtttt gacgac 36
182 <210> SEQ ID NO: 13
183 <211> LENGTH: 36
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
190 <400> SEQUENCE: 13
191 cgggtgagtc cgccaaagaa gtcggggggc ggcgtg 36
193 <210> SEQ ID NO: 14
194 <211> LENGTH: 36
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
201 <400> SEQUENCE: 14
202 gggagtagca agtggggatt gacttaaaaa tgtggg 36
204 <210> SEQ ID NO: 15
205 <211> LENGTH: 36

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## RAW SEQUENCE LISTING

DATE: 03/27/2003

PATENT APPLICATION: US/09/806,555A

TIME: 13:57:49

Input Set : A:\50125.022001.SEQLIST.TXT

Output Set: N:\CRF4\03272003\I806555A.raw

206 <212> TYPE: DNA  
207 <213> ORGANISM: Artificial Sequence  
209 <220> FEATURE:  
210 <223> OTHER INFORMATION: Tissue binding peptide  
212 <400> SEQUENCE: 15  
213 cgcgggggag tccgccaaag aagtcggggg cggcgt 36  
215 <210> SEQ ID NO: 16  
216 <211> LENGTH: 30  
217 <212> TYPE: DNA  
218 <213> ORGANISM: Artificial Sequence  
220 <220> FEATURE:  
221 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide  
223 <400> SEQUENCE: 16  
224 ggcgaggggc gaacagtcgt atgtcgttcg 30  
226 <210> SEQ ID NO: 17  
227 <211> LENGTH: 36  
228 <212> TYPE: DNA  
229 <213> ORGANISM: Artificial Sequence  
231 <220> FEATURE:  
232 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide  
234 <400> SEQUENCE: 17  
235 tcccagaggt ggactgcact ctggcaatgg atcggg 36

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/806,555A

DATE: 03/27/2003  
TIME: 13:57:50

Input Set : A:\50125.022001.SEQLIST.TXT  
Output Set: N:\CRF4\03272003\I806555A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 9

## VERIFICATION SUMMARY

DATE: 03/27/2003

PATENT APPLICATION: US/09/806,555A

TIME: 13:57:50

Input Set : A:\50125.022001.SEQLIST.TXT

Output Set: N:\CRF4\03272003\I806555A.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:86 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:90 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

# ENTERED



## RAW SEQUENCE LISTING

DATE: 03/27/2003

PATENT APPLICATION: US/09/806,555A

TIME: 13:22:02

Input Set : N:\Crf4\03272003\I806555.raw

Output Set: N:\CRF4\03272003\I806555A.raw

1 <110> APPLICANT: Schrader, Jorgen  
2 Herrmann, Andreas  
3 <120> TITLE OF INVENTION: Tissue-Binding Peptides, Their  
4 Identification, Preparation and Use  
5 <130> FILE REFERENCE: 50125/022001  
6 <140> CURRENT APPLICATION NUMBER: US/09/806,555A  
7 <141> CURRENT FILING DATE: 2001-03-30  
8 <150> PRIOR APPLICATION NUMBER: PCT/EP99/07296  
9 <151> PRIOR FILING DATE: 2000-04-13  
10 <150> PRIOR APPLICATION NUMBER: DE 19845434.1  
11 <151> PRIOR FILING DATE: 1998-10-02  
12 <160> NUMBER OF SEQ ID NOS: 17  
13 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
15 <210> SEQ ID NO: 1  
16 <211> LENGTH: 10  
17 <212> TYPE: PRT  
18 <213> ORGANISM: Artificial Sequence  
19 <220> FEATURE:  
20 <223> OTHER INFORMATION: Tissue binding peptide  
21 <400> SEQUENCE: 1  
22 Gly Glu Gly Arg Thr Val Val Leu Ser Phe  
23 1 5 10  
25 <210> SEQ ID NO: 2  
26 <211> LENGTH: 12  
27 <212> TYPE: PRT  
28 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <223> OTHER INFORMATION: Tissue binding peptide  
31 <400> SEQUENCE: 2  
32 Ala Trp Cys Arg Gly Gly Ile Leu Gly Asp Ala Met  
33 1 5 10  
35 <210> SEQ ID NO: 3  
36 <211> LENGTH: 12  
37 <212> TYPE: PRT  
38 <213> ORGANISM: Artificial Sequence  
39 <220> FEATURE:  
40 <223> OTHER INFORMATION: Tissue binding peptide  
41 <400> SEQUENCE: 3  
42 Gly Asn Leu Val Asp Leu Val Val Gly Phe Asp Asp  
43 1 5 10  
45 <210> SEQ ID NO: 4  
46 <211> LENGTH: 12  
47 <212> TYPE: PRT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/806,555A

DATE: 03/27/2003

TIME: 13:22:02

Input Set : N:\Crf4\03272003\I806555.raw

Output Set: N:\CRF4\03272003\I806555A.raw

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48 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Tissue binding peptide
51 <400> SEQUENCE: 4
52     Arg Val Ser Pro Pro Lys Lys Ser Gly Gly Gly Val
53     * 1           5           10
55 <210> SEQ ID NO: 5
56 <211> LENGTH: 12
57 <212> TYPE: PRT
58 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Tissue binding peptide
61 <220> FEATURE:
62 <221> NAME/KEY: VARIANT
63 <222> LOCATION: 9
64 <223> OTHER INFORMATION: Xaa - Any Amino Acid
65 <400> SEQUENCE: 5
W--> 66     Gly Ser Ser Lys Trp Gly Leu Thr Xaa Lys Cys Gly
67     1           5           10
69 <210> SEQ ID NO: 6
70 <211> LENGTH: 12
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Tissue binding peptide
75 <400> SEQUENCE: 6
76     Arg Gly Gly Val Arg Gln Arg Ser Arg Gly Arg Arg
77     1           5           10
79 <210> SEQ ID NO: 7
80 <211> LENGTH: 10
81 <212> TYPE: PRT
82 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Tissue binding peptide
85 <400> SEQUENCE: 7
86     Gly Glu Gly Arg Thr Val Val Cys Arg Ser
87     1           5           10
89 <210> SEQ ID NO: 8
90 <211> LENGTH: 12
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Tissue binding peptide
95 <400> SEQUENCE: 8
96     Ser Gln Arg Trp Thr Ala Leu Trp Gln Trp Ile Gly
97     1           5           10
99 <210> SEQ ID NO: 9
100 <211> LENGTH: 23
101 <212> TYPE: PRT

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## RAW SEQUENCE LISTING

DATE: 03/27/2003

PATENT APPLICATION: US/09/806,555A

TIME: 13:22:02

Input Set : N:\Crf4\03272003\I806555.raw

Output Set: N:\CRF4\03272003\I806555A.raw

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102 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Tissue binding peptide
105 <400> SEQUENCE: 9
106      Gly Leu Phe His Ala Ile Ala His Phe Ile His Gly Gly Trp His Gly
107          1           5           10           15
108      Leu Ile His Gly Trp Tyr Gly
109          20
111 <210> SEQ ID NO: 10
112 <211> LENGTH: 31
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
117 <400> SEQUENCE: 10
118      ggcgaggggc gaacagtcgt attgtcgttc g
119          10
120 <210> SEQ ID NO: 11
121 <211> LENGTH: 36
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
126 <400> SEQUENCE: 11
127      gcctggtgtc gggggggtat cctgggcgac gctatg
128          11
129 <210> SEQ ID NO: 12
130 <211> LENGTH: 36
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
135 <400> SEQUENCE: 12
136      ggaaacctgg tggatctagt tgtgggtttt gacgac
137          12
138 <210> SEQ ID NO: 13
139 <211> LENGTH: 36
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
144 <400> SEQUENCE: 13
145      cgggtgagtc cgccaaagaa gtcggggggc ggcgtg
146          13
147 <210> SEQ ID NO: 14
148 <211> LENGTH: 36
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide
153 <400> SEQUENCE: 14
154      gggagtagca agtgggggatt gacttaaaaa tgtggg
155          14
156 <210> SEQ ID NO: 15

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## RAW SEQUENCE LISTING

DATE: 03/27/2003

PATENT APPLICATION: US/09/806,555A

TIME: 13:22:02

Input Set : N:\CrF4\03272003\I806555.raw

Output Set: N:\CRF4\03272003\I806555A.raw

157 <211> LENGTH: 36  
158 <212> TYPE: DNA  
159 <213> ORGANISM: Artificial Sequence  
160 <220> FEATURE:  
161 <223> OTHER INFORMATION: Tissue binding peptide  
162 <400> SEQUENCE: 15  
163 cgcgggggag tccgccaaag aagtcggggg cggcgt 36  
165 <210> SEQ ID NO: 16  
166 <211> LENGTH: 30  
167 <212> TYPE: DNA  
168 <213> ORGANISM: Artificial Sequence  
169 <220> FEATURE:  
170 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide  
171 <400> SEQUENCE: 16  
172 ggcgaggggc gaacagtcgt atgtcgttcg 30  
174 <210> SEQ ID NO: 17  
175 <211> LENGTH: 36  
176 <212> TYPE: DNA  
177 <213> ORGANISM: Artificial Sequence  
178 <220> FEATURE:  
179 <223> OTHER INFORMATION: Sequence coding for tissue binding peptide  
180 <400> SEQUENCE: 17  
181 tcccagaggt ggactgcact ctggcaatgg atcggg 36

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/806,555A

DATE: 03/27/2003  
TIME: 13:22:03

Input Set : N:\Crf4\03272003\I806555.raw  
Output Set: N:\CRF4\03272003\I806555A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 9

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/806,555A

DATE: 03/27/2003

TIME: 13:22:03

Input Set : N:\Crf4\03272003\I806555.raw

Output Set: N:\CRF4\03272003\I806555A.raw

L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0